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Electrophoresis & Brownian Motion Video Analysis Laser Scattering Microscopy

Operator (Report): sop_kabanovlab.inst

Video Operator: sop_kabanovlab.inst

Sample Parameters

Sample Name: G104_F4
Comment: Sens=80, Sample Remarks0:
Sample Remarks1:
Sample Remarks2:
Electrolyte:
Temperature: 25.05 °C sensed
pH 7.0 entered
Conductivity: 15000.00 µS/cm sensed

Instrument Parameters

Laser Wavelength: 488 nm
Filter Wavelength: Scatter

Measurement Parameters

Cell S/N: ZNTA

Measurement Mode: Size Distribution 2 Cycles

11 Positions, 1 Removed for Analysis

Result (sizes in nm)

	Number	Concentration	Volume
Median (X50)	191.4	191.4	292.6
Span	83.1	83.0	121.8

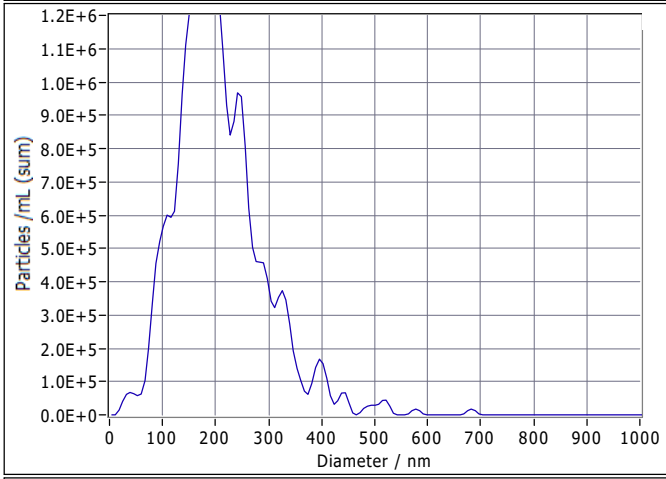
Concentration: 3.2E+7 Particles / mL
Dilution Factor: 50
Original Concentration: 1.6E+9 Particles / mL

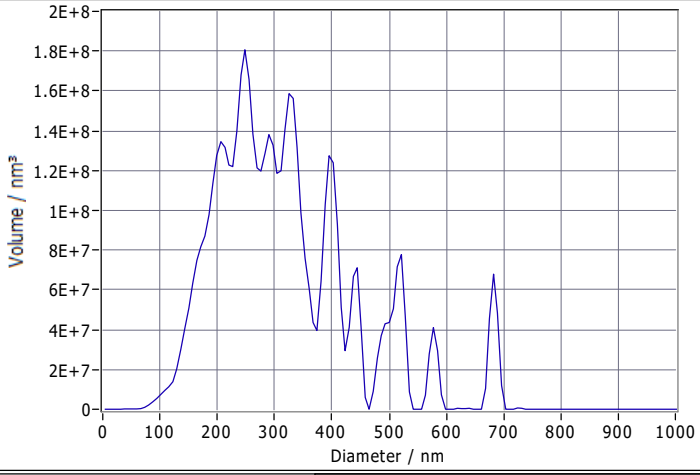
Quality

Average Counted Particles per Frame: 70
Number of Traced Particles: 752

Analysis Parameters

Max Area: 1000, Min Area: 10, Min Brightness: 20





Peak Analysis (Concentration)

Diameter / nm	Particles/mL	FWHM / nm	Percentage
167.3	1.3E+6	134.2	95.4
396.9	1.6E+5	33.7	4.6

X Values (all sizes are given in nm)

	Number	Concentration	Volume
X10	109.3	109.3	181.5
X50	191.4	191.4	292.6
X90	312.2	312.2	494.7
Span	1.1	1.1	1.1
Mean	206.8	206.8	318.4
StdDev	83.1	83.0	121.8

Comment

(Signature)

Analyzed Video: C:\Zetaview Data\Nancy\2023_02_14\20230214_0006_G104_F4_size_488.avi